Agilent Chemical Analysis Training Program for Mass Spectrometry

Agilent Technologies provides carefully planned, effective training courses in using Agilent chemical analysis hardware and software products. These courses help you to ensure highest productivity, shorter product development cycles and improved quality of analytical results.

You can obtain information, see course schedules and register by:
- **Logging on to www.agilent.com and go to the Education link under chemical/biochemical.**
- **Calling toll-free: 1-800-227-9770 in the U.S. and Canada.**

Course Title	Course No.	No. of Days	Description
Technique			
Introduction to GC-MS	H2609A	1	Introduces the technique of GC-MS in a lecture format and includes worksheet exercises.
Techniques of GC-MS	H4040A	3	Introduces the concepts of the GC-MS analysis process, and qualitative and quantitative techniques.
Techniques of GC-MS (eLearning Series)	H8971A	11 hours	Introduces the concepts of the GC-MS analysis process, and qualitative and quantitative techniques. Uses the Internet to deliver the course content in multiple learning sessions.
Hardware/Software Operation			
1100 Series LC-MSD Techniques and Software Operation	H1181A	4	Enhances skills in using the 1100 Series LC-MSD software and improves techniques for successful operation.
Atmospheric Pressure Ionization for Liquid Chromatography/Mass Spectrometry	H4057A	1	Shows how atmospheric pressure ionization-liquid chromatograph/mass spectrometer (API-LC/MS) analyses can solve real-world problems in the biochemistry, pharmaceutical, clinical and environmental industries. Features exercises in API-LC/MS methods development and spectral interpretation.
Operation of the GC-MSD System Using the ChemStation for GC-MSD	H4043A	5	Teaches skills to enhance an operator's efficiency and productivity when using the Agilent GC-MSD system. Provides experience in data acquisition, data analysis, library searching, reporting, and customizing the system to meet specific laboratory or customer needs.
GC-MSD System for Environmental Applications	H4050A	5	Enhances skill in the use of a mass selective detector with mass spectrometer EnviroQuant, software.
Inductively Coupled Plasma Mass Spectrometry (Agilent 4500 ICP-MS)	H4035A	4	Gives students expertise in the routine operation, applications and maintenance of the Agilent 4500 inductively coupled plasma mass spectrometer (ICP-MS).
Inductively Coupled Plasma Mass Spectrometry (Agilent 7500 ICP-MS)	H8974A	4	Gives students expertise in the routine operation, applications and maintenance of the Agilent 7500 inductively coupled plasma mass spectrometer (ICP-MS).
Troubleshooting and Maintenance			
Introduction to 5973 GC-MSD Troubleshooting and Preventive Maintenance	H5947A	1	Addresses how to perform preventive maintenance and troubleshooting to keep the Agilent 5973 GC-MSD system working properly. Includes discussion of typical Auto-Tunes and problem Auto-Tunes. Also offers class exercises that enhance understanding of troubleshooting and maintenance principles.
5973 GC-MSD Troubleshooting and Maintenance	H2294A	3	Covers tunes and diagnostics, the vacuum system, the 5973 MSD ion source, the quadrupole mass filter, and the 5973 MSD. Includes hands-on laboratory exercises to demonstrate and practice the principles conveyed.
Data Analysis and Reporting			
Data Analysis and Reporting Using the ChemStation for GC-MSD	H4076A	3	Enhances skills in using the Agilent ChemStation for GC-MSD. Makes users more efficient and productive while expanding their capabilities to maximize ChemStation features. Addresses how to customize the software for laboratory and customer needs.
Data Analysis and Reporting Using the EnviroQuant ChemStation for GC-MSD	H4053A	3	Improves skills in using the Agilent EnviroQuant, software. Covers data analysis and reporting, including completion of EPA-like forms. Addresses how to customize the software for laboratory and customer needs.

Course information continues on the next page.

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(Course Information Continued)

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Interpretation and Macros			
Introduction to Mass Spectral Interpretation I	H5313A	1	Introduces the most commonly used tools for identifying unknown compounds from their mass spectra. Also teaches an effective alternative to relying solely on spectral library searching to identify unknown compounds.
Introduction to Mass Spectral Interpretation II	H5319A	1	Covers the basics of mass spectral interpretation. Teaches fundamental fragmentation mechanisms to help identify unknown compounds from mass spectra. Introduces two common decomposition mechanisms and uses them to help determine an appropriate structure from among a number of possible isomers.
Interpretation of Mass Spectra	H4063A	3	Presents a comprehensive introduction to mass spectral interpretation. Covers the fundamental concepts to obtaining high-quality data in SCAN mode from a GC-MS system. Introduces the most commonly used tools for identifying compounds based on their mass spectra. Also covers decomposition mechanisms.
Macro Programming for Mass Spectra	H4048A	2	Teaches how to use the full potential of data analysis, with emphasis on the benefits that automation (available with macro programming) offers. Also covers customization and printing as well as the macro environment and key commands. Examples draw from actual solutions to user requests for customized output.

Information, descriptions, and specifications in this publication are subject to change without notice.

Not every course is available in every area worldwide. For detailed information on course availability, please call your Agilent chemical analysis representative.

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